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<110> Fong, Timothy
Te, Alexis

<120> Cytomodulating Peptides for Treating Interstitial Cystitis

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<141> 2005-05-16

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<151> 2003-11-17

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<151> 2003-05-15

<150> US 60/426,684
<151> 2002-11-15

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<221> MISC_FEATURE
<222> (1)..(1)
<223> The Xaa at position 1 can be any basic amino acid, preferably
lysine or arginine

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<222> (2)..(4)
<223> The Xaa at positions 2 to 4 can be any non-polar aliphatic or
aromatic amino acid of from 5 to 6 carbon atoms, preferably any
amino acid other than a polar aliphatic amino acid

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<223> The Xaa at position 5 can be any basic amino acid, preferably
lysine or arginine

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<222> (6)..(8)
<223> The Xaa at positions 6 to 8 can be any non-polar aliphatic or
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<222> (9)..(9)

<223> The Xaa at position 9 can be glycine, or any basic amino acid, or an aliphatic hydrophobic amino acid of from 5 to 6 carbon atoms

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
1 5 10

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<223> The Xaa at position 2 can be an uncharged aliphatic or aromatic amino acid, preferably a non-polar aliphatic or aromatic amino acid

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<222> (3)..(4)

<223> The Xaa at positions 3 to 4 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<223> The Xaa at positions 6 to 8 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<222> (9)..(9)

<223> The Xaa at position 9 can be glycine, or any basic amino acid, or an aliphatic hydrophobic amino acid of from 5 to 6 carbon atoms

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1 5 10

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Arg Leu Leu Leu Arg Leu Leu Leu Gly Tyr
1 5 10

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<400> 4

Arg Val Leu Leu Arg Leu Leu Leu Gly Tyr
 1 5 10

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<220>
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<400> 5

Arg Ile Leu Leu Arg Leu Leu Leu Gly Tyr
 1 5 10

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<400> 6

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Arg Leu Ile Leu Arg Leu Leu Leu Gly Tyr
 1 5 10

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Arg Leu Leu Val Arg Leu Leu Leu Gly Tyr
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 1 5 10

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Arg Leu Leu Leu Arg Val Leu Leu Gly Tyr
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Arg Leu Leu Leu Arg Ile Leu Leu Gly Tyr
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Arg Leu Leu Leu Arg Leu Ile Leu Gly Tyr
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 1 5 10

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Arg Leu Leu Leu Arg Leu Leu Ile Gly Tyr
 1 5 10

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Arg Trp Leu Leu Arg Leu Leu Leu Gly Tyr
 1 5 10

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Arg	Leu	Trp	Leu	Arg	Leu	Leu	Leu	Gly	Tyr
1				5					10

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Arg	Leu	Leu	Trp	Arg	Leu	Leu	Leu	Gly	Tyr
1				5					10

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Arg	Leu	Leu	Leu	Arg	Trp	Leu	Leu	Gly	Tyr
1				5					10

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Arg	Leu	Leu	Leu	Arg	Leu	Trp	Leu	Gly	Tyr
1				5					10

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1				5					10

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Arg Tyr Leu Leu Arg Leu Leu Leu Gly Tyr
 1 5 10

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Arg Leu Tyr Leu Arg Leu Leu Leu Gly Tyr
 1 5 10

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Arg Leu Leu Tyr Arg Leu Leu Leu Gly Tyr
 1 5 10

<210> 25
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Arg Leu Leu Leu Arg Tyr Leu Leu Gly Tyr
 1 5 10

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<223> Synthetic

<400> 26

Arg Leu Leu Leu Arg Leu Tyr Leu Gly Tyr
1 5 10

<210> 27
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<220>
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<400> 27

Arg Leu Leu Leu Arg Leu Leu Tyr Gly Tyr
1 5 10

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<223> The Xaa at positions 2 to 4 are norleucine or any D-stereoisomer amino acid

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<222> (6)..(8)
<223> The Xaa at positions 2 to 4 are norleucine or any D-stereoisomer amino acid

<400> 28

Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Gly Tyr
1 5 10

<210> 29
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<220>
<223> Synthetic

<400> 29

Gly Ser Gly Gly Ser
1 5

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Gly Gly Gly Ser
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 <222> (1)..(5)
 <223> The Xaa at positions 1 to 5 can be any amino acid

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 <222> (7)..(9)
 <223> The Xaa at positions 7 to 9 can be any amino acid, where one of amino acids 7 to 9 can be absent

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 <222> (11)..(22)
 <223> The Xaa at positions 11 to 22 can be any amino acid, where up to 8 of amino acids 11 to 22 can be absent

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 <222> (24)..(26)
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 <222> (28)..(32)
 <223> The Xaa at positions 28 to 32 can be any amino acid

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Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
 20 25 30

<210> 32
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<220>
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 <222> (7)..(26)
 <223> The Xaa at positions 7 to 26 can be any amino acid, where up to
 17 amino acids 7 to 26 can be absent

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Phe Gln Cys Glu Glu Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Ile Arg Ser His Thr
 20 25 30

Gly

<210> 33
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 <223> The Xaa at positions 2 to 3 can be any amino acid

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 <222> (4)..(24)
 <223> The Xaa at positions 4 to 24 can be any amino acid, where up to
 16 amino acids 4 to 24 can be absent

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 <223> The Xaa at positions 26 to 29 can be any amino acid

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Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Cys
 20 25 30

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 <222> (7)..(26)
 <223> The Xaa at positions 7 to 26 can be any amino acid, where up to 16 amino acids 7 to 26 can be absent

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Val Lys Cys Phe Asn Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Thr Ala Arg Asn Cys
 20 25 30

Arg

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 <222> (10)..(29)
 <223> The Xaa at positions 10 to 29 can be any amino acid, where up to 16 amino acids 10 to 29 can be absent

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Met Asn Pro Asn Cys Ala Arg Cys Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Lys Ala
 20 25 30

Cys Phe